

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method of manufacturing optical glass elements by press molding a glass material with a pressing mold comprising an upper mold and a lower mold, at least one of the upper mold and the lower mold being vertically movable,

at least one of the upper mold and the lower mold having a shape such that when the glass material is in contact with the upper mold and the lower mold, a molding surface of at least one of the upper mold and the lower mold forms a closed space with a surface of the glass material,

which method comprising:

supplying a glass material, at a temperature of less than a temperature at which the glass material exhibits a viscosity of 10^{11} poises, between the upper mold and the lower mold

heating the supplied glass material by thermal conduction by means of contact with the upper mold or lower mold on the side on which the space is formed, and,

moving at least one of the upper mold and the lower mold at an average moving rate of less than or equal to 10 mm/min at least for a distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold, when a temperature of the pressing

mold is at a predetermined temperature \pm within a range in which the glass material exhibits a viscosity of from $10^{7.4}$ to $10^{10.5}$ poises,

wherein a total height of closed spaces formed by the at least one of the upper mold and the lower mold in the direction of the moving of the movable mold is denoted as h micrometers, and

wherein the moving step is a single continuous pressing step that causes discharge of the gas from the closed space.

2. (currently amended): The method of Claim 1 wherein at least one of the upper mold and the lower mold which forms the closed spaces has a concave surface with a paraxial radius of curvature r1 in the molding surface and the surface of the glass material which forms ~~the~~ a closed space with the molding surface has a convex surface with a radius of curvature r0, wherein $r1 < r0$.

3. (original): The method of Claim 2 wherein a pressure applied to the glass material by moving at least one of the upper mold and the lower mold is increased on or after the time when the moving distance of said mold reaches the distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold.

4. (original): The method of Claim 3 wherein the average increasing rate of the pressure is less than or equal to 0.5kgf/mm^2 per second.

5. (original): The method of Claim 4 wherein the average moving rate of at least one of the upper mold or the lower mold is increased on or after the time when the moving distance of

said mold reaches the distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold.

6. (currently amended): A method of manufacturing optical glass elements by press molding a glass material with a pressing mold comprising an upper mold and a lower mold, at least one of the upper mold and the lower mold being vertically movable,

at least one of the upper mold and the lower mold having a shape such that when the glass material is in contact with the upper mold and the lower mold, a molding surface of at least one of the upper mold and the lower mold forms a closed space with a surface of the glass material,

which method comprising:

supplying a glass material between the upper mold and the lower mold, and moving at least one of the upper mold and the lower mold at an average moving rate of less than or equal to 10 mm/min at least for a distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold, when a temperature of outer surface of the supplied glass material is higher than the interior of the glass material and the outer surface is at a predetermined temperature T_1 within a range in which the glass material exhibits a viscosity of from $10^{7.4}$ to $10^{10.5}$ poises,

and the temperature of the pressing mold is at a predetermined temperature T_2 within a range in which the glass material exhibits a viscosity of from $10^{7.4}$ to $10^{10.5}$ poises,

wherein a ~~maximum~~ total height of closed spaces formed by the at least one of the upper mold and the lower mold in the direction of the moving of the movable mold is denoted as h micrometers, and

wherein the moving step is a single continuous pressing step that causes discharge of the gas from the closed space.

7. (original): The method of Claim 6 further comprising heating the glass material so that the outer surface of the glass material reaches a temperature T1 in which the glass material exhibits a viscosity of from $10^{7.4}$ to $10^{10.5}$ poises prior to supplying the glass material between the upper mold and the lower mold.

8. (currently amended): The method of Claim 7 wherein at least one of the upper mold and the lower mold which forms ~~the~~ a closed space has a concave surface with a paraxial radius of curvature r_l in the molding surface and the surface of the glass material which forms ~~the~~ said closed space with the molding surface has a convex surface with a radius of curvature r_0 , wherein $r_l < r_0$.

9. (original): The method of Claim 8 wherein a pressure applied to the glass material by moving at least one of the upper mold and the lower mold is increased on or after the time when the moving distance of said mold reaches the distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold.

10. (original): The method of Claim 9 wherein the average increasing rate of the pressure is less than or equal to 0.5kgf/mm^2 per second.

11. (original): The method of Claim 10 wherein the average moving rate of at least one of the upper mold or the lower mold is increased on or after the time when the moving distance of said mold reaches the distance h micrometers after the glass material becomes in contact with the upper mold and the lower mold.

12.-15. (cancelled).

16. (new): The method of Claim 1 wherein the discharge of the gas occurs from the beginning of the moving step.